

**REMARKS**

Claims 1-11, 13-25 and 27-48 are in the case and presented for reconsideration. Claims 12 and 26 have been canceled. Claims 1, 13, 16, 27, 28, 30, 33 and 46 have been amended. No new matter has been added.

Claims 1-48 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent Application Publication No. US2003/0018251 (Solomon).

Independent Claims 1, 16, 28, 30, 33 and 46 have been amended in order to more particularly point out the Applicant's claimed present invention. Particularly, the Applicant's claimed present invention is directed toward both apparatus and methods for electrically mapping a pulmonary vein or chamber of the heart that further comprises a catheter having a curve section with a single-coil or first position sensor for generating fewer than six dimensions of position and orientation information (in certain embodiments five dimensions of position and orientation information) and a base section having a multi-coil or second position sensor for generating six dimensions of position and orientation information as well as a computer or processor for determining the less than six dimensions of position and orientation information (or five dimensions of position and orientation information in certain embodiments) of the single-coil or first position sensor and determining six dimensions of position and orientation information for the multi-coil or second position sensor wherein the computer or processor combines this position and orientation information together with the electrical property of the pulmonary vein or chamber in order to determine electrical abnormalities in the pulmonary vein or chamber for selecting target tissue to ablate in the pulmonary vein or chamber. The support for these amendments can be found in the Applicant's Specification, for example, Page 12, Line 25 – Page 13, Line 10; and Page 15, Line 6-27.


Accordingly, Applicant's claimed present invention as amended is directed toward both an apparatus and method for electrical mapping of a pulmonary vein or chamber of a heart in order to provide for a high degree of accuracy and mapping as well as a high degree of reliability and being able to determine electrical abnormalities in the tissue of the pulmonary vein or heart

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chamber which allows for accurate selecting of target tissue for ablation in the pulmonary vein or chamber. This combination of novel features, functionality and steps are neither taught nor suggested in the Solomon reference.

Accordingly, the Applicant's claimed present invention as amended is neither anticipated by nor rendered obvious by this prior art reference, and favorable action is respectfully requested.

Respectfully submitted,

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